

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Appl. No. : **10/595,333** Confirmation No. **7657**  
Applicant(s) : **YANG, Yiquan et al.**  
Filed : **April 10, 2006**  
TC/A.U. : **1754**  
Examiner : **To Be Assigned**  
Title : **Process for the Manufacture of Methylmercaptan**

Docket No. : **032301.452**  
Customer No. : **25461**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**REQUEST FOR CORRECTED FILING RECEIPT**

The Filing Receipt dated June 11, 2007, contains a typographical error in the "Title" section. The "Title" section should read as follows, with the deleted text being bracketed and the correct text being underlined:

**Title**

PROCESS FOR THE MANUFACTURE OF METHYLMERCAPTAN

The title of the invention was entered incorrectly into the Patent Office electronic filing system (EFS-Web) at the time of filing the application. In support of their Request for Corrected Filing Receipt, Applicants are submitting a copy of the first page of the patent specification filed April 10, 2006, and the Declaration/Power of Attorney filed January 26, 2007, both of which reflect the correct spelling of the title of the invention.

A copy of the Filing Receipt with the correction noted thereon is attached hereto. No fee is deemed necessary.

Respectfully submitted,

By: Robert G. Weilacher, Reg. No. 20,531

Dated: June 28, 2007  
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# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPL NO.	FILING OR 371(c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	TOT CLMS	IND CLMS
10/595,333	01/26/2007	1754	2030	032301.452	40	3

**CONFIRMATION NO. 7657**

25461  
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**FILING RECEIPT**



\*OC000000024249649\*

Date Mailed: 06/11/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

**Applicant(s)**

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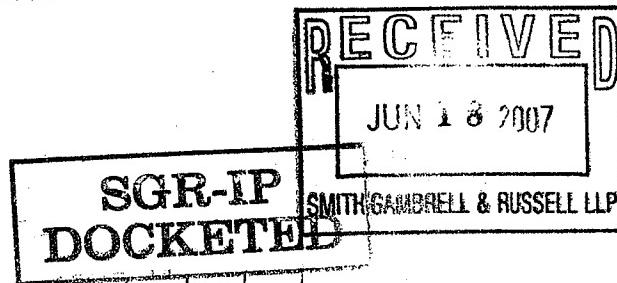
**Power of Attorney:** The patent practitioners associated with Customer Number **25461**.

**Domestic Priority data as claimed by applicant**

This application is a 371 of PCT/EP04/10872 09/29/2004

**Foreign Applications**

CHINA 2003 10100495.7 10/10/2003  
 CHINA 2003 10100496.1 10/10/2003  
 CHINA 2004 10008377.8 03/12/2004



If Required, Foreign Filing License Granted: 06/06/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is

**US10/595,333****Projected Publication Date:** 09/13/2007**Non-Publication Request:** No**Early Publication Request:** No**Title**

PROCESS FOR THE MANUFACTURE OF METHYLMERCAPTAN

L  
← Should be:

METHYL MERCAPTAN

**Preliminary Class**

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**PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES**

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

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Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

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Title 37, Code of Federal Regulations, 5.11 & 5.15**

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**Process for the Manufacture of Methylmercaptan**

The present invention refers to a continuous process for the manufacture of methyl mercaptan using Mo-O-K-based catalysts. The invention further refers to a process for  
5 the preparation of a solid, preformed catalyst system.

**Background of the Invention**

Methylmercaptan is a well known intermediate for the production of organic compounds, such as sulfur containing amino acids, pesticides and dyes. Industrially,  
10 methylmercaptan, also known as methanethiol, is produced mainly for the synthesis of methionine, a widely used feed supplement for poultry.

Methylmercaptan is commercially produced by the heterogeneously catalyzed gas phase reaction of methanol and hydrogen sulfide. For example, EP-B-0832878 and DE-C-  
15 19654515 disclose a methanethiol preparation method based on the reaction of hydrogen sulfide ( $H_2S$ ) with methyl alcohol ( $CH_3OH$ ). EP-A-167,354 discloses a synthesis pathway based on the reaction of hydrogen sulfide with carbon  
20 monoxide (CO), wherein titanium dioxide ( $TiO_2$ ) was employed as carrier and nickel oxide ( $NiO$ ) or molybdenum oxide ( $MoO_3$ ) as active component.

Chinese Patent Applications CN 1207957 and CN 1207958 disclose a series of catalysts useful for the methanethiol  
25 synthesis from high  $H_2S$ -containing synthesis gas, wherein the active component (Mo-S-K-based species) comes from the precursor of  $K_2MoS_4$  or  $(NH_4)_2MoS_4$  plus a potassium salt. In these Chinese patent applications, dimethylformamide [ $(CH_3)_2NCOH$ ] and not water is chosen as solvent to dissolve  
30 the active component. The described process is hard to handle and expensive. Another disadvantage of the described catalyst and process seems to be the space-time-yield of

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## Declaration and Power of Attorney for Patent Application Erklärung für Patentanmeldungen mit Vollmacht

### German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:

As a below named inventor, I hereby declare that:

dass mein Wohnsitz, meine Postanschrift und meine Staatsangehörigkeit den im nachstehenden nach meinem Namen aufgeführten Angaben entsprechen, dass ich nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent für die Erfindung mit folgendem Titel beantragt wird:

My residence, post office address and citizenship are as stated next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

### PROCESS FOR THE MANUFACTURE OF METHYLMERCAPTAN

deren Beschreibung hier beigefügt ist, es sei denn (in diesem Falle Zutreffendes bitte ankreuzen), diese Erfindung

- wurde angemeldet am  
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Vertrags Ober die Zusammenarbeit auf dem Gebiet  
des Patentwesens (PCT)  
und am  
abgeändert (falls zutreffend).

Ich bestätige hiermit, dass ich den Inhalt der oben angegebenen Patentanmeldung, einschließlich der Ansprüche, die eventuell durch einen oben erwähnten Zusatzantrag abgeändert wurde, durchgesehen und verstanden habe

Ich erkenne meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Titel 37, Code of Federal Regulations, § 1.56 von Belang sind.

the specification of which is attached hereto unless the following box is checked:

- was filed on 29 September 2004  
as United States Application Number or PCT  
International Application Number  
PCT/EP2004/010872 and was amended on  
(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner of Patents and Trademarks, Washington, DC 20231.

## German Language Declaration

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Prior Foreign Applications  
(Frühere ausländische Anmeldungen)

<u>200310100495.7</u>	China
(Number)	(Country)
(Nummer)	(Land)
<u>200310100496.1</u>	China
(Number)	(Country)
(Nummer)	(Land)
<u>200410008377.8</u>	China
(Number)	(Country)
(Nummer)	(Land)

Ich beanspruche hiermit Prioritätsvorteile unter Title 35, US-Code, § 119(e) aller US-Hilfsanmeldungen wie unten aufgezählt.

(Application No.) (Aktenzeichen)	(Filing Date) (Anmeldetag)
(Application No.) (Aktenzeichen)	(Filing Date) (Anmeldetag)

Ich beanspruche hiermit die mir unter Title 35, US-Code, § 120 zustehenden Vorteile aller unten aufgeführten US-Patentanmeldungen bzw. § 365(c) aller PCT internationalen Anmeldungen, welche die Vereinigten Staaten von Amerika benennen, und erkenne, insofern der Gegenstand eines jeden früheren Anspruchs dieser Patentanmeldung nicht in einer US-Patentanmeldung, bzw. PCT internationalen Anmeldung in einer gemäß dem ersten Absatz von Title 35, US-Code, § 112 vorgeschriebenen Art und Weise offenbart wurde, meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Title 37, Code of Federal Regulations, § 1.56 von Belang sind und die im Zeitraum zwischen dem Anmeldetag der früheren Patentanmeldung und dem nationalen oder im Rahmen des Vertrags über die Zusammenarbeit auf dem Gebiet des Patentwesens (PCT) gültigen internationalen Anmeldetags bekannt geworden sind.

(Application No.) (Aktenzeichen)	(Filing Date) (Anmeldetag)
(Application No.) (Aktenzeichen)	(Filing Date) (Anmeldetag)

Ich erkläre hiermit, dass alle in der vorliegenden Erklärung von mir gemachten Angaben nach bestem Wissen und Gewissen der Wahrheit entsprechen, und ferner dass ich diese eidesstattliche Erklärung in Kenntnis dessen ablege, dass wissentlich und vorsätzlich falsche Angaben oder dergleichen gemäß § 1001, Title 18 des US-Code strafbar sind und mit Geldstrafe und/oder Gefängnis bestraft werden können und dass derartige wissentlich und vorsätzlich falsche Angaben die Rechtswirksamkeit der vorliegenden Patentanmeldung oder eines aufgrund deren erteilten Patentes gefährden können.

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Priority Not Claimed  
Priorität nicht beansprucht

10/October/2003  
(Day/Month/Year Filed)  
(Tag/Monat/Jahr der Anmeldung)

10/October/2003  
(Day/Month/Year Filed)  
(Tag/Monat/Jahr der Anmeldung)

12/March/2004 (Day/Month/Year Filed)  
(Tag/Monat/Jahr der Anmeldung)

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

(Application No.) (Aktenzeichen)	(Filing Date) (Anmeldetag)
(Application No.) (Aktenzeichen)	(Filing Date) (Anmeldetag)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

(Status) (patented, pending, abandoned)  
(Status) (patentiert, schwebend, aufgegeben)

(Status) (patented, pending, abandoned)  
(Status) (patentiert, schwebend, aufgegeben)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**German Language Declaration**

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**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (*list name and registration number*)

**Customer No.: 25,461**

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Vor- und Zuname des weiteren Miterfinders (falls zutreffend)	Full name of fifteenth joint inventor, if any <b>Sabine Ackermann</b>	
Unterschrift des Erfinders	Datum	Inventor's signature
Wohnsitz	Residence	Hanau, Germany
Staatsangehörigkeit	Citizenship	Germany
Postanschrift	Post Office Address	Alte Langgasse 18a, D-63457 Hanau, Germany

Vor- und Zuname des weiteren Miterfinders (falls zutreffend)	Full name of twelfth joint inventor, if any		<b>Christoph Weckbecker</b>
Unterschrift des Erfinders	Datum	Inventor's signature	Date
Wohnsitz		Residence	Gründau-Lieblos, Germany
Staatsangehörigkeit		Citizenship	Germany
Postanschrift		Post Office Address	August-Imhof-Strasse 25, D-63584 Gründau-Lieblos, Germany
Vor- und Zuname des weiteren Miterfinders (falls zutreffend)	Full name of thirteenth joint inventor, if any		<b>Klaus Huthmacher</b>
Unterschrift des Erfinders	Datum	Inventor's signature	<i>Klaus Huthmacher</i> Date 03/81/82
Wohnsitz		Residence	Gelnhausen, Germany
Staatsangehörigkeit		Citizenship	Germany
Postanschrift		Post Office Address	Lärchenweg 18, D-63571 Gelnhausen, Germany
Vor- und Zuname des weiteren Miterfinders (falls zutreffend)	Full name of fourteenth joint inventor, if any		<b>Hubert Redlingshöfer</b>
Unterschrift des Erfinders	Datum	Inventor's signature	Date
Wohnsitz		Residence	Münchsteinach, Germany
Staatsangehörigkeit		Citizenship	Germany
Postanschrift		Post Office Address	Steigerwaldstrasse 9, D-91481 Münchsteinach, Germany
Vor- und Zuname des weiteren Miterfinders (falls zutreffend)	Full name of fifteenth joint inventor, if any		<b>Sabine Ackermann</b>
Unterschrift des Erfinders	Datum	Inventor's signature	Date
Wohnsitz		Residence	Hanau, Germany
Staatsangehörigkeit		Citizenship	Germany
Postanschrift		Post Office Address	Alte Langgasse 18a, D-63457 Hanau, Germany

Vor- und Zuname des weiteren Miterfinders (falls zutreffend)	Full name of twelfth joint inventor, if any		<b>Christoph Weckbecker</b>
Unterschrift des Erfinders	Datum	Inventor's signature	Date
Wohnsitz		Residence	Gründau-Lieblos, Germany
Staatsangehörigkeit		Citizenship	Germany
Postanschrift		Post Office Address	August-Imhof-Strasse 25, D-63584 Gründau-Lieblos, Germany
Vor- und Zuname des weiteren Miterfinders (falls zutreffend)	Full name of thirteenth joint inventor, if any		<b>Klaus Huthmacher</b>
Unterschrift des Erfinders	Datum	Inventor's signature	Date
Wohnsitz		Residence	Gelnhausen, Germany
Staatsangehörigkeit		Citizenship	Germany
Postanschrift		Post Office Address	Lärchenweg 18, D-63571 Gelnhausen, Germany
Vor- und Zuname des weiteren Miterfinders (falls zutreffend)	Full name of fourteenth joint inventor, if any		<b>Hubert Redlingshöfer</b>
Unterschrift des Erfinders	Datum	Inventor's signature	<i>Hubert Redlingshöfer</i> Date 03/29/86
Wohnsitz		Residence	Münchsteinach, Germany
Staatsangehörigkeit		Citizenship	Germany
Postanschrift		Post Office Address	Steigerwaldstrasse 9, D-91481 Münchsteinach, Germany
Vor- und Zuname des weiteren Miterfinders (falls zutreffend)	Full name of fifteenth joint inventor, if any		<b>Sabine Ackermann</b>
Unterschrift des Erfinders	Datum	Inventor's signature	Date
Wohnsitz		Residence	Hanau, Germany
Staatsangehörigkeit		Citizenship	Germany
Postanschrift		Post Office Address	Alte Langgasse 18a, D-63457 Hanau, Germany

Vor- und Zuname des weiteren Miterfinders (falls zutreffend)		Full name of twelfth joint inventor, if any		Christoph Weckbecker
Unterschrift des Erfinders	Datum	Inventor's signature	Date	
Wohnsitz		Residence	Gründau-Lieblos, Germany	
Staatsangehörigkeit		Citizenship	Germany	
Postanschrift		Post Office Address	August-Imhof-Strasse 25, D-63584 Gründau-Lieblos, Germany	
Vor- und Zuname des weiteren Miterfinders (falls zutreffend)		Full name of thirteenth joint inventor, if any		
Unterschrift des Erfinders	Datum	Inventor's signature	Klaus Huthmacher Date	
Wohnsitz		Residence	Gelnhausen, Germany	
Staatsangehörigkeit		Citizenship	Germany	
Postanschrift		Post Office Address	Lärchenweg 18, D-63571 Gelnhausen, Germany	
Vor- und Zuname des weiteren Miterfinders (falls zutreffend)		Full name of fourteenth joint inventor, if any		
Unterschrift des Erfinders	Datum	Inventor's signature	Hubert Redlingshöfer Date	
Wohnsitz		Residence	Münchsteinach, Germany	
Staatsangehörigkeit		Citizenship	Germany	
Postanschrift		Post Office Address	Steigerwaldstrasse 9, D-91481 Münchsteinach, Germany	
Vor- und Zuname des weiteren Miterfinders (falls zutreffend)		Full name of fifteenth joint inventor, if any		
Unterschrift des Erfinders	Datum	Inventor's signature	Sabine Ackermann Date 04/03/2006	
Wohnsitz		Residence	Hanau, Germany	
Staatsangehörigkeit		Citizenship	Germany	
Postanschrift		Post Office Address	Alte Langgasse 18a, D-63457 Hanau, Germany	